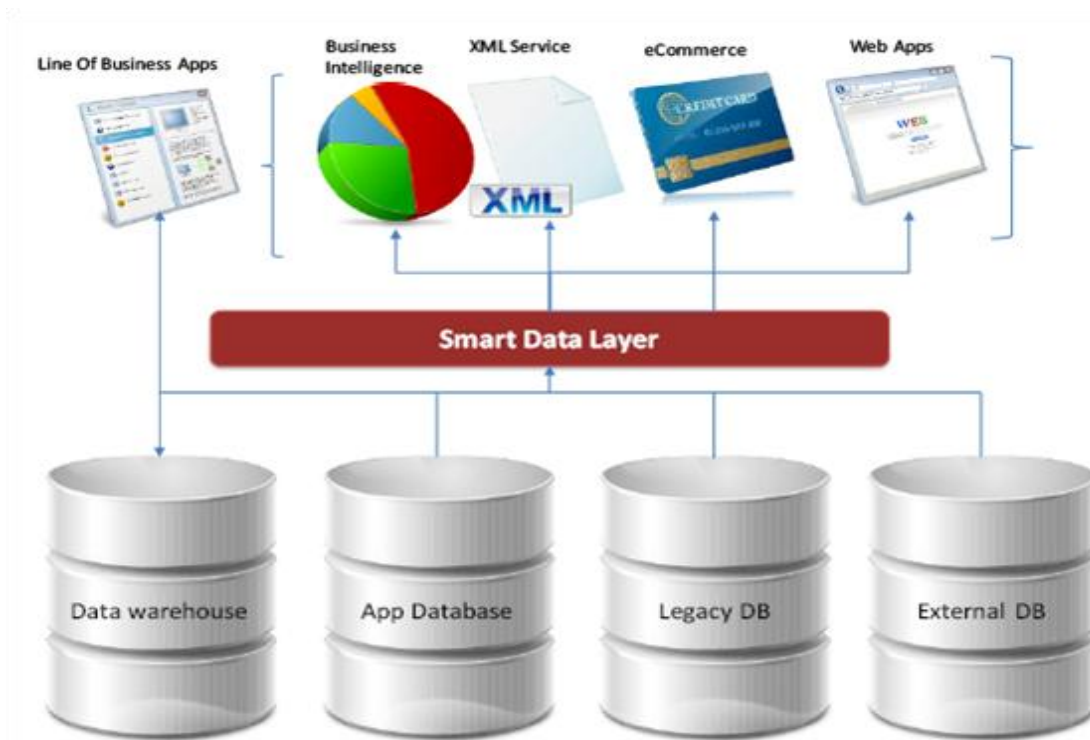# WHAT IS ROAM?

It is a robust data retrieval integration solution that provides the ability to access data across multiple databases and platforms. ROAM = Rapid Online Access Method.
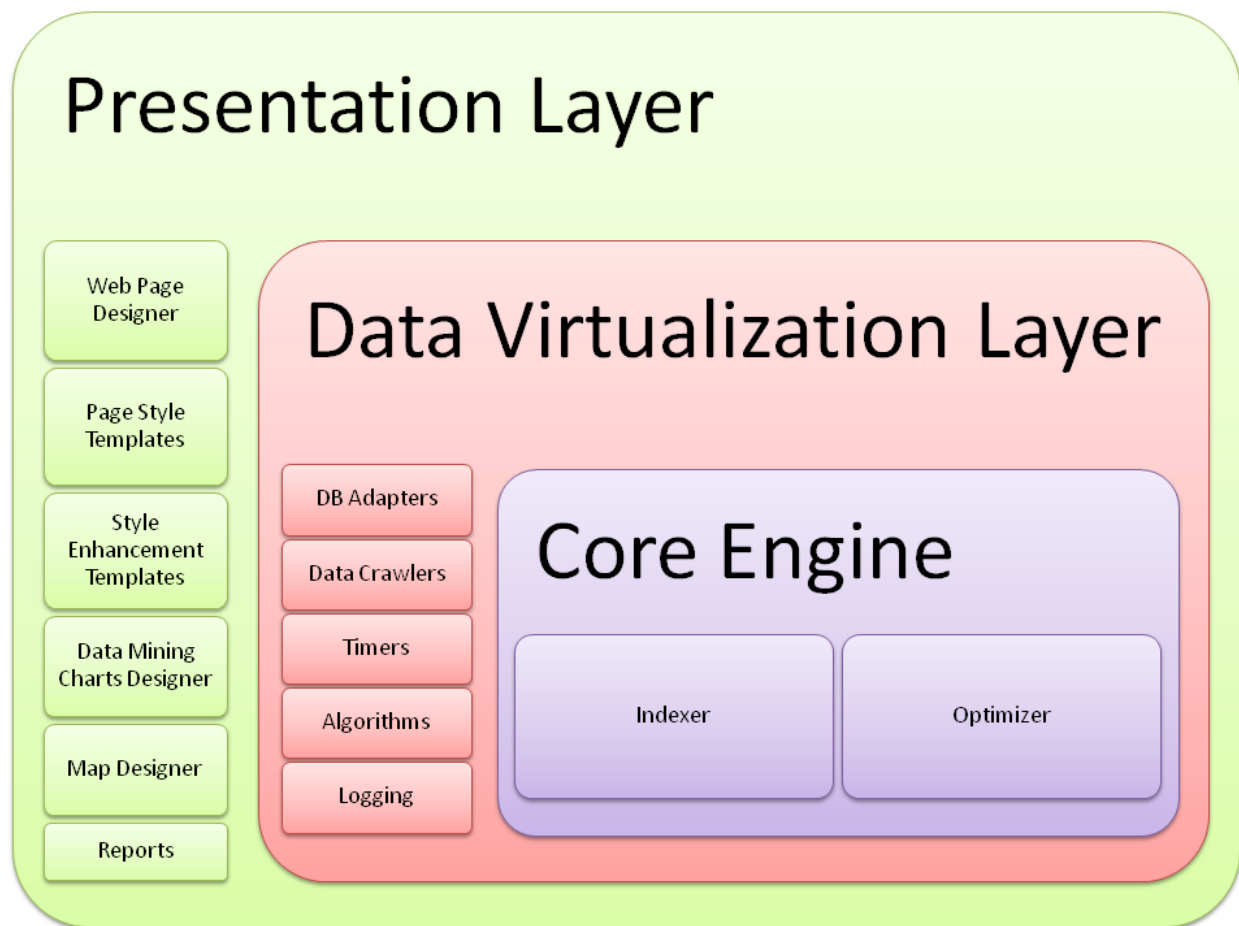
ROAM is another component of the AOC Enterprise Service Bus (ESB). It enables the retrieval of near real-time data from across divergent source systems (for example AJACS, AZTEC, etc.) with minimum programming effort by either the AOC or the CMS source systems. In addition, ROAM provides an agile approach that allows for easy and quick changes/additions to the source systems. This approach will remove or significantly reduce delays associated to efforts involving obtaining data from external agencies.

ROAM TECHNOLOGY:

 At the core of ROAM's technology is its Smart Data Layer (SDL) search engine, which allows the return of near instant results, even across databases consisting of billions of records. ROAM's end user interface includes configurable web templates based HTML, JavaScript, XML and JavaScript Object Notion (JSON). In addition, ROAM supports over 80 configurable text, data, language and number algorithms to further enhance its impressive data retrieval capabilities.

ROAM COMPONENTS:

Smart Data Layer has 3 key components: Core Engine, Virtualization Layer and Presentation Layer

1. Core Engine
Smart Data layer's core engine performs the indexing and optimization of data from structured and unstructured data sources. The core engine is very robust and highly scalable to billions of records.

2. Virtualization Layer
The Virtualization layer performs the data access, scheduled updates using timers, logging and contains the information retrieval readers and writers to perform the indexing. The virtualization layer implements a whole series of mathematical models and algorithms to extract data from sources at a lightning speed and transforms the data according to user's wish.

3. Presentation Layer
The indexed data can be presented as WebPages using the presentation layer. This layer contains templates to create web pages for information retrieval, add data mining features such as clustering or filtering fields, Graphs, Maps or design a custom webpage using the Smart Data Layer Template language (SDLTL)

ROAM BENEFITS:

1. Provides ability to create a database independent platform across the enterprise

2. Enables the ability to search multiple departments at the same time

3. Includes rapid full text search functionality as well as advanced algorithms allowing for data, even bad data, to be found faster and easier than ever before

4. Architecture supports a multitude database platforms (SQL Server, Informix, DB2, and others

5. Allows creation of Web applications and Business Intelligence applications

6. Includes robust data retrieval and export functionality, including XML

WHAT WE PLAN TO USE IT FOR?

1. eFiling
2. AJACS Statistical Reports
3. Redesign of Public Access
4. SSRS Reports